# Claims

[c1]　What is claimed is:

1.An apparatus for controlling speed of a pickup head comprising:

a tracking compensator for driving a driving device of said pickup head; and

an adaptive compensator for driving said driving device according to an error signal received by said pickup head so as to drive an actuator of said pickup head away from the non–linear region of a predetermined range on a sled.

[c2]　2.The apparatus as recited in claim 1 further comprising an error signal generator for generating said error signal to said adaptive compensator according to a position re-lationship between said actuator and a target track.

[c3]　3.A method for controlling speed of data access of a pickup head comprising:

detecting whether an actuator on a sled approaches to a non–linear region of a predetermined range on said sled; and

providing a supplementary force to drive said actuator away from said non–linear region.

[c4]    4.The method as recited in claim 3 further comprising
the steps of:
generating an error signal according to a position rela-
tionship between said actuator and a target track; and
determining that said actuator approaches to said non-
linear region of said predetermined range on said sled if
a magnitude of said error signal is substantially greater
than an adjustable threshold.

[c5]    5.The method as recited in claim 3 further comprising
the steps of:
generating an error signal according to a position rela-
tionship between said actuator and a target track,
wherein said error signal is polarized; and
determining whether said actuator approaches to said
non-linear region according to said error signal.

[c6]    6.The method as recited in claim 5, wherein said polar-
ized error signal indicating a degree and a direction of
said actuator deviation from said target track.

[c7]    7.A tracking method of a pickup head comprising:
determining an adjustable supplementary force accord-
ing to a reflected signal from a focusing error; and
adding up said adjustable supplement force to adjust
position of said pickup head for reducing a run-out ef-

fect of a disk.

[c8]    8.The method as recited in claim 7, wherein magnitude and symbol of said reflected signal indicating degree and direction of said run-out disk deviation from said target track.